## **I. Disposal Activities**

Table 1. Status of Vermont landfills that were permitted for waste acceptance in 2019

Solid Waste Landfills	Location	Status	Permitted Fill Rate (tons/year)
New England Waste Services, Vermont (NEWSVT): Phase IV: Cells 1-4	Coventry	Operating	600,000
Salisbury Landfill	Salisbury	Closed (9-1-20), unlined	1,000
Northwest Solid Waste District – Sheldon: Cell 1	Sheldon	Permitted, no current plans for construction, not operating	20,000

Table 2. In-state and Out-of-State (OOS) materials disposed within Vermont landfills, as reported in 2019

	<b>Total Tons</b>	OOS Tons	VT Tons
	(as reported by disp	oosal facilities)	(Total tons minus OOS tons)
MSW	394,168		394,168
C&D	9,132	8,203	930
Sludge (WWTP)	42,440	27,754	14,686
Asbestos	36,712	32,917	3,795
Ash	4,537	4,533	4
Contaminated Soil	8,905	6,977	1,928
Sewer Grit	893		893
Paper Sludge	2,995		2,995
Medical Waste	110		110
Other	37,665	28,512	9,153
TOTAL	537,557	108,896	428,661

Table 3. Solid waste sourced in Vermont but sent for management at an Out-of-State facility in 2019

	Massachusetts	New Hampshire	New York	Quebec	Total
MSW	38	40,383	66,228		106,649
C&D		15,136	18,966		34,102

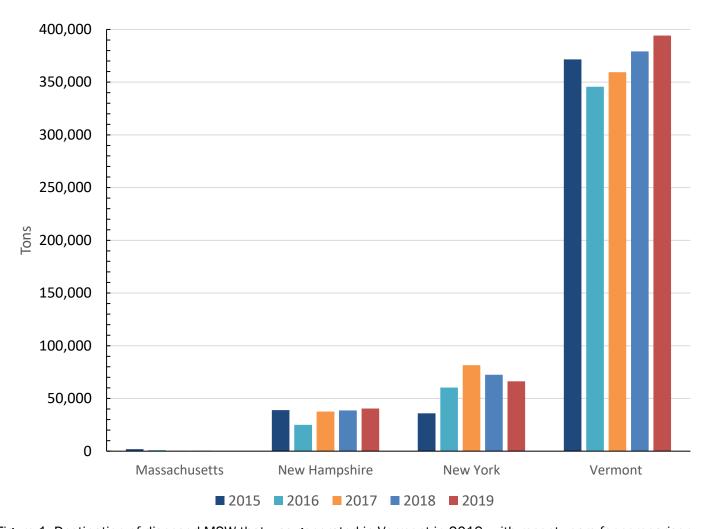


Figure 1: Destination of disposed MSW that was generated in Vermont in 2019, with recent years for comparison.

Table 4. Beneficial use of solid waste materials within Vermont landfill operations in 2019

Material	Use	Tonnage
Paper Sludge	Landfill Alternative Daily Cover	282
Contaminated Soils	Landfill Alternative Daily Cover	30,335
Sludge – cut with soil	Landfill Alternative Daily Cover	2,104
Sand Blast Grit	Landfill Alternative Daily Cover	77
Asphalt, Brick, Concrete	Landfill Road Base	0
Processed C&D	Landfill Road Base	3,228
Sawdust	Landfill Road Base	866
Mixed, Crushed Glass	Landfill Road Base	0
Total		36,892

Table 5. Adjustment of MSW tonnage for estimated C&D component

	Reported Tonnages	C&D tonnage (11.1% of reported MSW)	Remaining MSW Tonnage
Vermont MSW	394,168	43,753	350,415
In-state Disposal	,		,
Vermont MSW	106,649	11,838	94811
Out-of-State Disposal	200,027	,	
Total Vermont			445,226
MSW Disposal			110,220

## **II. Diversion Activities**

Table 6. Summary of Vermont's 2019 diversion activities

(in tons)	Fibers	Containers	Single Stream	C&D	Scrap Metal	Organics	Foodbank Food Rescue	Miscellaneous
A- From Reporting	66,631	16,518	1,810	6,053	15,730	15,145		67
Facility to Market								
B- Estimate of Direct to Broker or Market (Economic Recycling)	20,707†	17,480* 2,686†			1,616†	2,552+		1,159+
C- Reported Reuse Activities	541	5		8			3,658	89
D – Estimated Household Composting						16,548§ 36,127†		
TOTALS	87,879	36,689	1,810	6,053	17,346	70,372	3,658 A + B + C	1,315 + D = <b>225,122</b>

<sup>\*</sup> Denotes an estimate derived from the System Analysis of the Impact of Act 148 on Solid Waste management in Vermont (2013, DSM Environmental Services, Inc.)

<sup>&</sup>lt;sup>†</sup>Denotes an estimate derived from the 2018 Vermont Waste Characterization Report (2018, DSM Environmental). See above descriptions of the diversion groups for details.

<sup>&</sup>lt;sup>‡</sup>Denotes values determined from tonnages provided by the Vermont Foodbank.

<sup>§</sup> Denotes a leaf and yard waste estimate derived from the Vermont's Municipal Solid Waste Diversion Rate 2001 study (2002, DSM Environmental). See above descriptions of the diversion groups for details

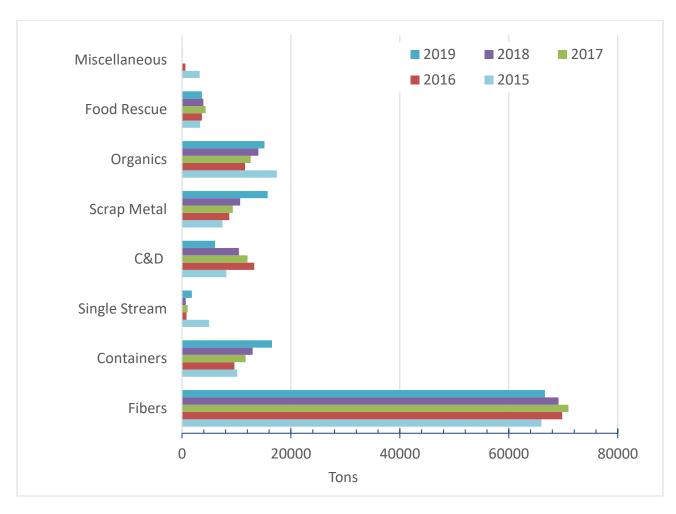


Figure 2: 2014-2019 comparison of materials marketed directly from Vermont solid waste facilities (Group A from Table 6 and Food Rescue).

## **III. Total Municipal Solid Waste Generation and Summary**

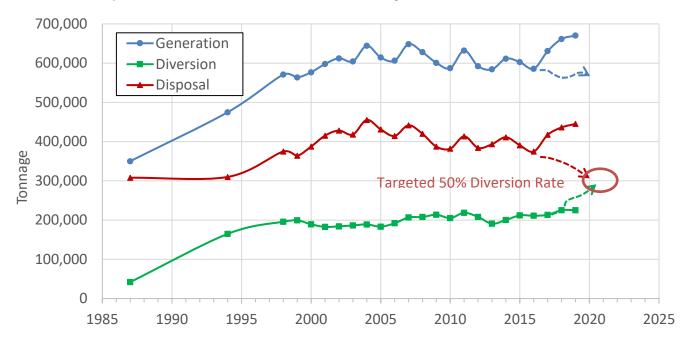


Figure 3: Projections of municipal solid waste generation, diversion, and disposal with the implementation of Universal Recycling over coming years.

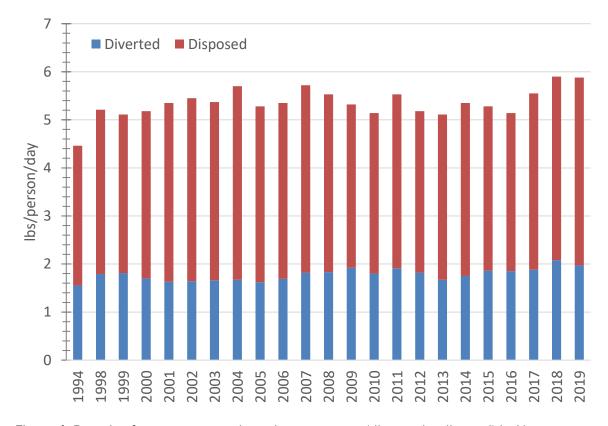


Figure 4: Pounds of waste generated per day per person (disposed + diverted) by Vermonters.

Table 7. Vermont generation, diversion and disposal totals for municipal solid waste. Includes tonnages, per capita breakdowns and percentage rates.

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Generation	609,497	579,689	571,446	613,517	592,981	566,042	552,297	597,254	557,302	584,235	611,472	602,617	585,789	630,851	661,385 *673,403	670,348
Diversion	154,217	148,459	157,173	171,818	173,024	178,796	170,326	183,737	173,258	190,797	200,272	212,065	211,152	213,449	225,219 *237,237	225,122
Disposal	455,281	431,230	414,273	441,699	419,957	387,246	381,971	413,517	384,044	393,438	411,200	390,552	374,637	417,402	436,166	445,226
Population																
[1]	618,794	619,736	620,778	621,254	621,270	621,750	625,741	626,592	625,953	626,630	626,562	626,042	624,594	623,657	626,299	623,989
Per Capita MSW Generation (Tons/Year)	0.98	0.94	0.92	0.99	0.95	0.91	0.88	0.95	0.89	0.93	1.0	0.96	0.94	1.01	1.08	1.08
(Pounds/Day)	5.40	5.13	5.04	5.41	5.23	4.99	4.84	5.22	4.88	5.11	5.35	5.27	5.14	5.54	5.89	5.88
Per Capita MSW Diversion (Tons/Year)	0.25	0.24	0.25	0.28	0.28	0.29	0.27	0.29	0.28	0.30	0.32	0.34	0.34	0.34	0.38	0.36
(Pounds/Day)	1.37	1.31	1.39	1.52	1.53	1.58	1.49	1.61	1.52	1.67	1.75	1.86	1.85	1.88	2.08	1.97
Per Capita MSW Disposal (Tons/Year)	0.74	0.70	0.67	0.71	0.68	0.62	0.61	0.66	0.61	0.63	0.66	0.62	0.60	0.67	0.70	0.71
(Pounds/Day)	4.03	3.81	3.66	3.90	3.70	3.41	3.34	3.62	3.36	3.44	3.60	3.41	3.29	3.67	3.82	3.91
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Generation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Diversion	25%	26%	28%	28%	29%	32%	31%	31%	31%	33%	33%	35%	36%	34%	34%	34%
Disposal	75%	74%	72%	72%	71%	68%	69%	69%	69%	67%	67%	65%	64%	66%	66%	66%

<sup>[1]</sup> Population Estimate, Vermont. US Census: http://census.gov

<sup>\*</sup> There was an error in the 2018 diversion data. The corrected value is above.

## IV. Other Material Management Activities – Not included in disposal or diversion tonnages

Table 8. Summary of historic hazardous waste collections and participation

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Total HHW and CEG tons	935	906	865	1,069	899	452	525	460	467	489	566	436
% participating VT households	11%	9%	10%	8%	6%	7%	7%	9%	7%	6%	8%	9%
Pounds collected per household (avg.)	55	60	60	86	131	102	62	34	47	46	45	30